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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/699,184	1	0/31/2003	Noah C. Lassar	100202925-1	1056	
22879	7590	11/27/2006		EXA	MINER	_
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INTELLECT	UAL PRO	OPERTY ADMII	NISTRATION	ART UNIT	PAPER NUMBER	
FORT COLL	INS, CO	80527-2400		2853	•	

DATE MAILED: 11/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/699,184	LASSAR ET AL.				
	Office Action Summary	Examiner	Art Unit				
		An H. Do	2853				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address				
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. Poeriod for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	ON. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).				
Status							
2a)⊠	Responsive to communication(s) filed on <u>24 August 2006</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-45 is/are pending in the application. 4a) Of the above claim(s) 41-45 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-3,5,6,13-17,25-30 and 35-38 is/are rejected. 7) Claim(s) 4,7-12,18-24,31-34,39 and 40 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Applicati	on Papers	·	1				
10)	 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal					
Pape	r No(s)/Mail Date	6)					

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DETAILED ACTION

The Response filed on 24 August 2006 has been acknowledged.

Election/Restrictions

1. This application contains claims 41-45 drawn to an invention nonelected with traverse in Paper filed on 20 September 2005. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 5, 6, 13, 14, 25-30 and 35-37 are rejected under 35 U.S.C. 102(b) as being anticipated by DeMeerleer et al (US 6,402,299).

DeMeerleer et al disclose in Figures 1-4 the following claimed features:

Regarding claims 1, 25 and 26, a fluid ejection device (10) for receiving a signal and ejecting fluid in response thereto, comprising: an ink ejecting nozzle layer (printhead 16 having orifices 24 formed therein) having a substrate (body 12) with first (top surface) and second (side surface) surfaces joined along an edge (left corner of body 12); an insulating feature (TAB circuit 14) located on the first surface (top surface) adjacent the edge; and a flexible lead (electrical traces 30) that bends around the edge

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(left corner of body 12) and lies flush (recess 20) against the insulating feature (Figures 2 and 4).

Regarding claims 2 and 13, further comprising a primer layer (coating 46) of an insulating material, which lies between the substrate (12) and the nozzle layer (printhead 16) to define the insulating feature.

Regarding claims 3 and 28, wherein: the primer layer defines a firing chamber (18) around a firing element (Figures 2 and 4); and the firing chamber is configured in fluidic communication with the nozzle layer (column 2, line 65 to column 3, line 13).

Regarding claims 5 and 6, wherein a portion of the flexible lead has a narrowed cross-section which defines a weakened area (Figure 4 shows trace 30 has the bending portion), the flexible lead (30) bent at the weakened area such that another portion of the flexible lead (30) lies flush against the insulating feature (Figures 2 and 4).

Regarding claim 14, wherein the edge is a non-rectangular shape (the edge shown in Figure 2 is a square shape).

Regarding claim 27, wherein the means for insulating projects above the first surface (Figures 2 and 4).

Regarding claim 29, wherein the means for insulating also insulates the means for defining from the means for supporting (Figures 2 and 4).

Regarding claim 30, wherein the means for receiving (free trace area 42) further comprises means for bending the means for receiving at a selected location (recess 20) (Figure 4).

Regarding method claims 35-37, DeMeerleer et al also disclose a method insulating in view of the fact that the above structure is disclosed.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 15-17 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over DeMeerleer et al (US 6,402,299) in view of Daggs et al (US 5,422,667).

DeMeerleer et al disclose the claimed invention except for reciting the edge is a non-rectangular shape having a beveled surface, a notched out section or a stepped surface joining together the first and second surfaces which are not substantially orthogonal.

Daggs et al teach in Figures 1 and 2 the edge is a non-rectangular shape having a beveled surface, a notched out section or a stepped surface (a top cutout section of 12 and 28) joining together the first (12) and second (28) surfaces which are not substantially orthogonal.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include a non-rectangular shaped edge having a notched out section, as taught by Daggs et al, for the purpose of providing a location for electrical interconnects.

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Response to Arguments

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- Applicant's arguments filed 24 August 2006 have been fully considered but they 6. are not persuasive. Applicant argued that DeMeerleer does not disclose, teach, or suggest at least "an insulating feature located on the first surface adjacent the edge" or "a flexible lead that bends around the edge and lies flush against the insulating feature," as recited and emphasized above in claim 1. However, this argument is not found persuasive because DeMeerleer teaches a TAB circuit (14) as an insulating feature located on a first surface of the printhead (16); and a flexible lead (traces 30) that bends around the edge and lies flush against the insulating feature (Figure 4). Applicant further argued that DeMeerleer does not teach or suggest at least "means for insulating the means for receiving from the means for supporting, wherein the means for receiving lies flush against the means for insulating," as recited in claim 25. This argument is not persuasive for the reason that DeMeerleer discloses a flexible tape circuit (14) as means for insulating the means for receiving (recess 20) from the means for supporting, wherein the means for receiving (20) lies flush against the means for insulating (14) as shown in Figure 4.
- 7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Allowable Subject Matter

8. Claims 4, 7-12, 18-24, 31-34, 39 and 40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Contact Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to An H. Do whose telephone number is 571-272-2143. The examiner can normally be reached on Monday-Friday (Flexible).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ΑD

November 22, 2006

An H. Do

Primary Examiner

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